



CAPTS : COMPREHENSIVE ALLOCATION AND PORTFOLIO TRADING SOLUTION

ASSET CLASSES

Crypto

Stocks

Commodities

Bonds



MACHINE LEARNING

PCA
PRINCIPAL COMPONENT
ANALYSIS

K-MEANS CLUSTERING
WITH AUTOMATED ELBOW PLOT

MONTE CARLO SIMULATION
2 LAYERS

RESOURCE PAGE

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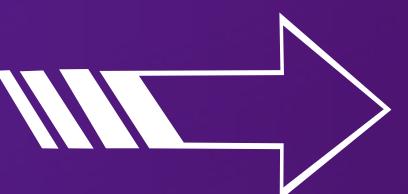
K-MEANS



Add Company Name

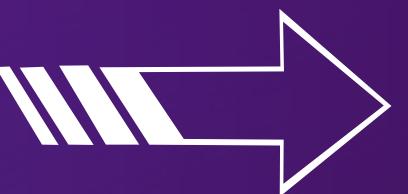
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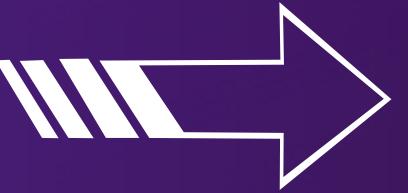
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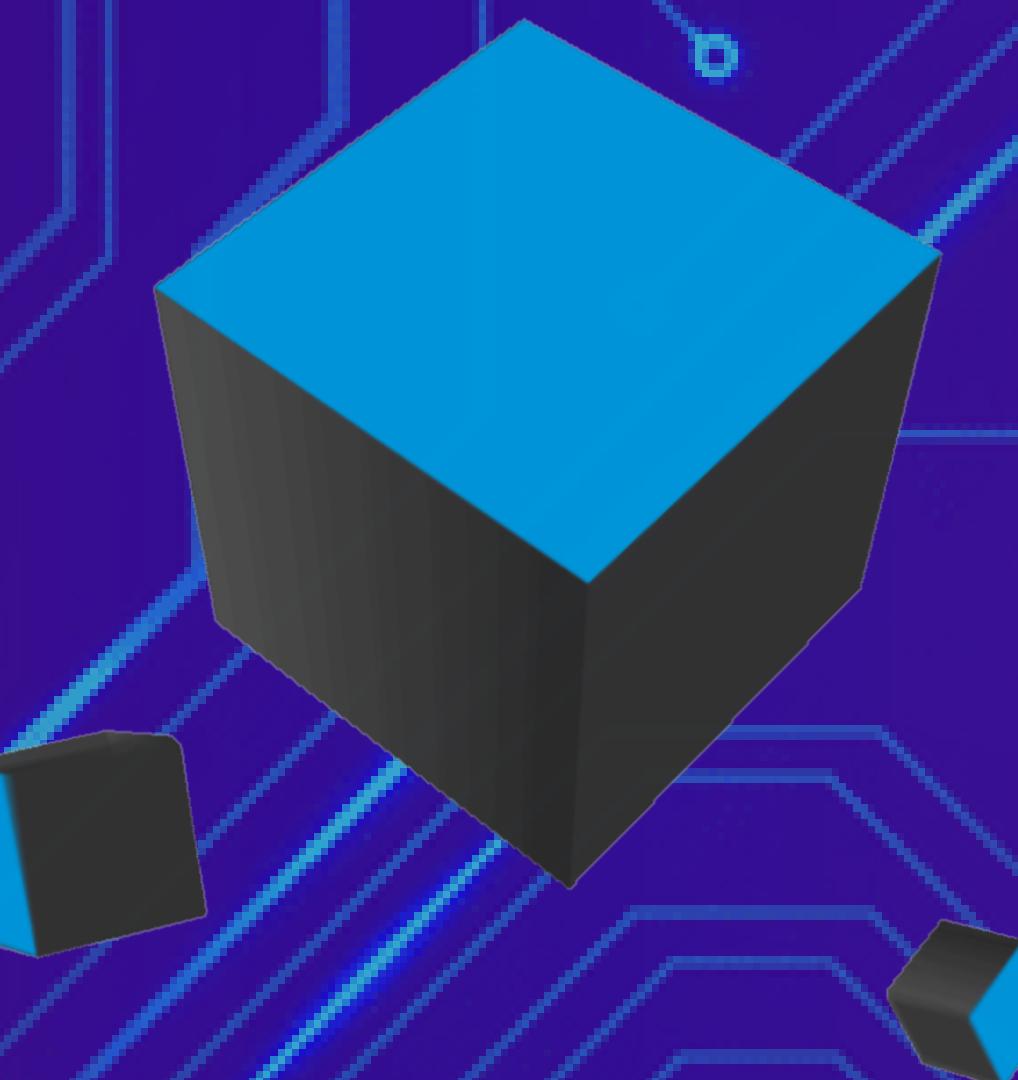
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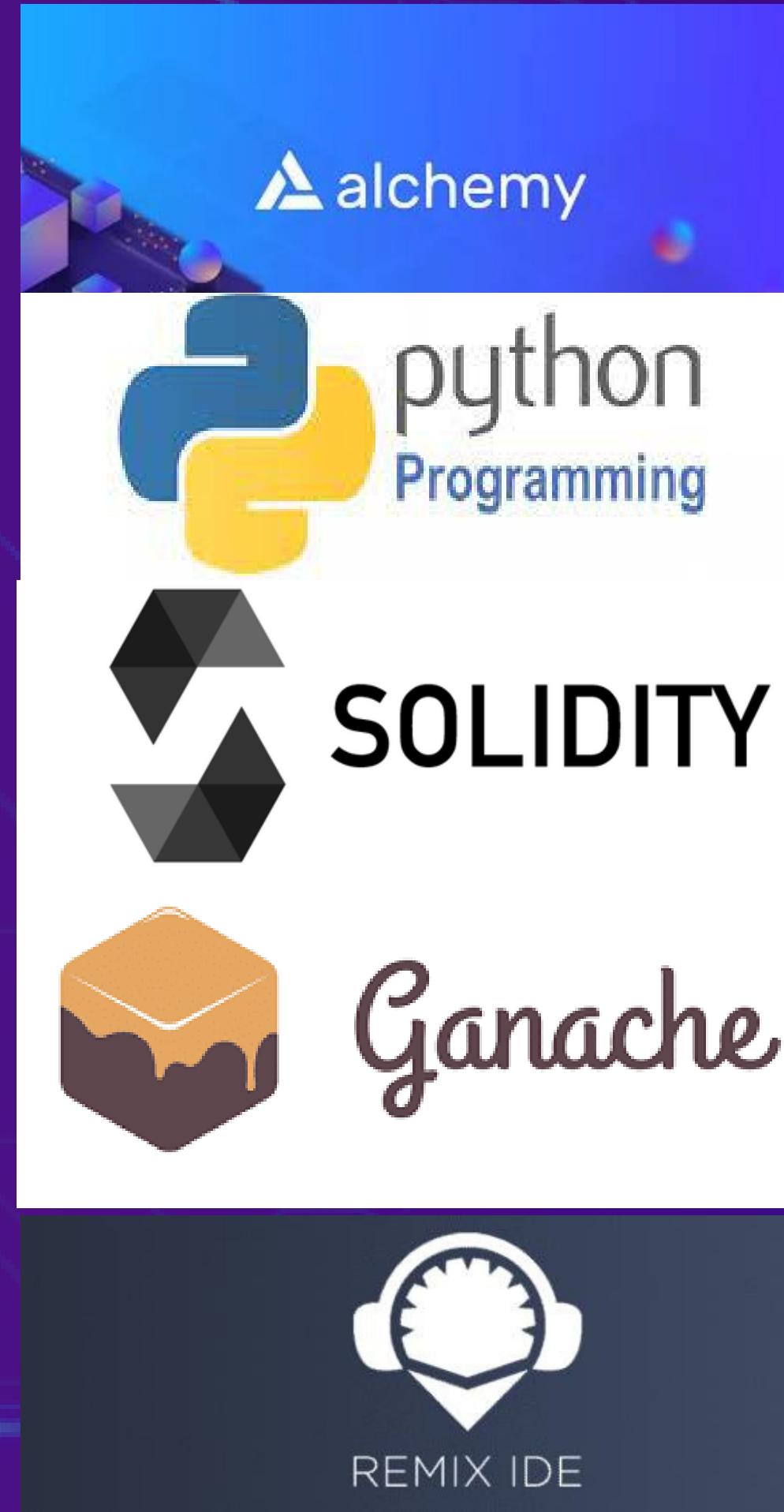


AUTHENTICHAIN

AUTHENTICITY VERIFICATION PLATFORM



TECHNOLOGY STACK:



Alchemy API is used for fetching Ethereum blocks and extracting historical gas fees.

Python programming language used for programming machine learning models and the frontend of the application

Solidity programming language used for writing smart contracts on the Ethereum blockchain

Ganache local network is used for local Ethereum blockchain development and testing.

The **Remix IDE** is used for developing, testing, and deploying smart contracts on the Ethereum blockchain.

MACHINE LEARNING

FOR ETHEREUM GAS FEES
FORECAST

2 ARIMA MODELS



PROPHET

AutoRegressive Integrated
Moving Average

is time series forecasting model
that predicts future values
based on past data patterns.

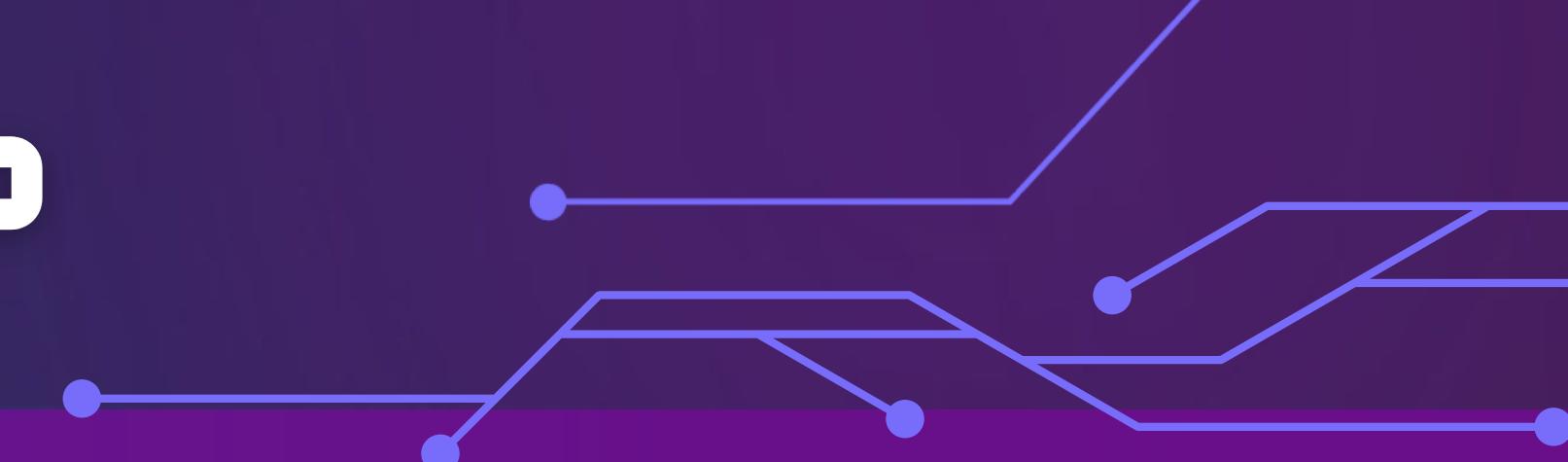
is a time series forecasting
model that simplifies the
process of predicting future
values based on historical
data.



INTEGRATED I.I.D.
NOISE

an extension of the i.i.d.
assumption where the
cumulative sum of
independent variables
produces a random walk.

STREAMLIT APP



Homepage:

The homepage provides an introduction to the application and offers guidance on how to use it. It includes links to the three main sections: Creator's Lab, Distributor's Desk, and Buyer's Archive.

Creator's Lab:

The Creator's Lab page features a form for creators to input their information and product/content details. Required fields include creator's name, product/content name, description, and creation date. After submission, metadata is generated, a QR code is created, and a new token is minted on the blockchain.

Distributor's Desk:

Retailers and distributors access the Distributor's Desk page to view a list of NFT tokens received from creators. Each item includes token details and an associated QR code. They can transfer tokens to new owners when making sales to customers.

Buyer's Archive:

The Buyer's Archive page is designed for end-users or buyers to see a list of tokens representing products or content they own. Each token includes a QR code for accessing product/content information. Users can choose to transfer tokens to new owners if they decide to resell the product or content.

FUTURE STEPS FOR PROJECT PROFITABILITY:



Subscription Model: Offer subscription plans covering gas fees, platform maintenance, and profit margin.



Optimize Gas Fees: Implement a gas fee prediction model and explore Layer 2 scaling solutions, like Optimistic Rollups or zkRollups, which can significantly reduce gas fees by processing transactions off-chain and only periodically submitting aggregated data to the Ethereum mainnet.



Data and Analytics Services: Provide value-added services like supply chain optimization and market trend analysis for additional revenue.



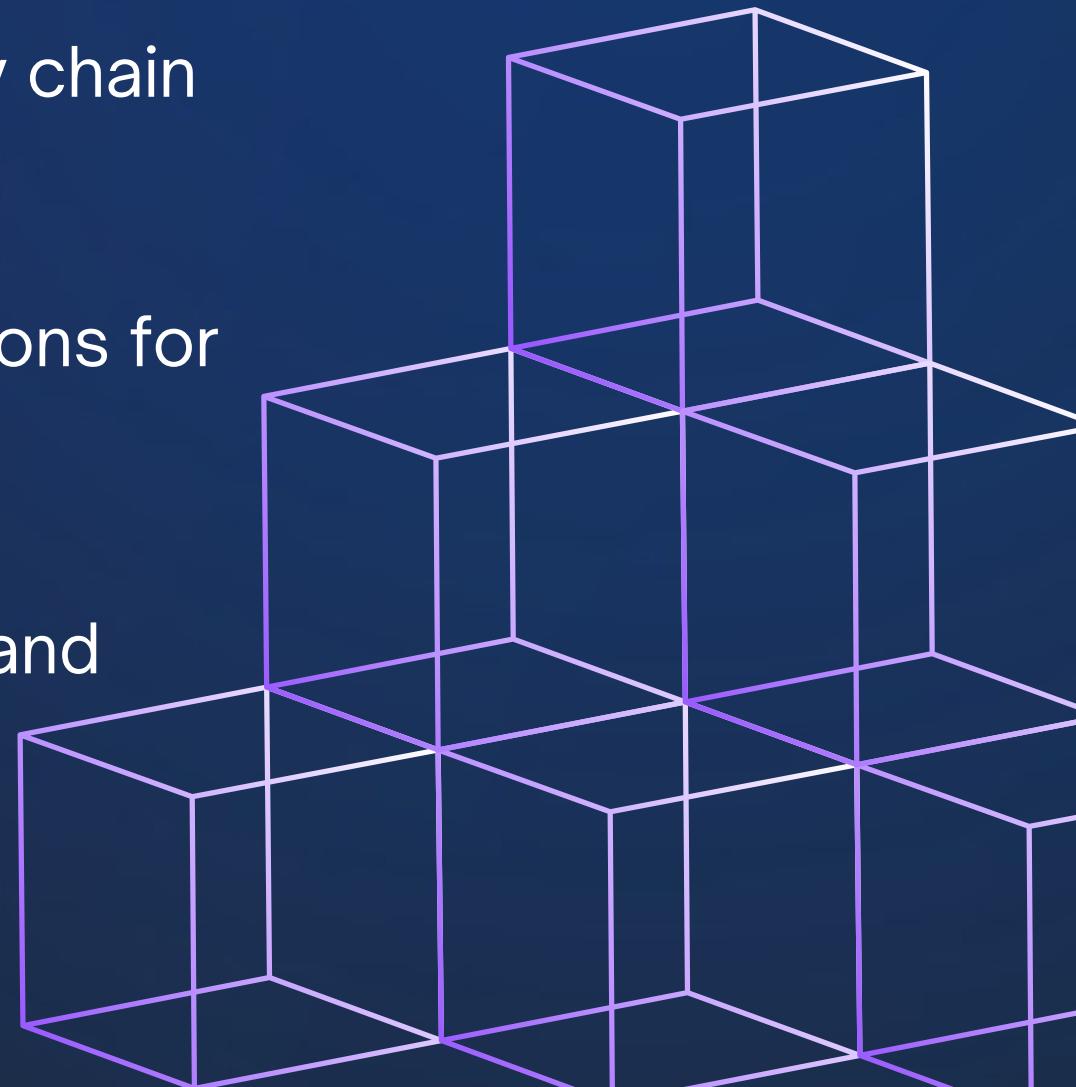
Premium Model: Offer basic features for free, with premium subscriptions for advanced features.



Pay-Per-Use Model: Charge users per transaction, covering gas fees and generating revenue.



Potential integration with **IoT devices** to track the product.



THANK YOU!

We sincerely appreciate the invaluable guidance and support provided by all the instructors and teaching assistants throughout the app development and studying process.

STRENGTHS

What are you doing well?

What sets you apart?

What are your good qualities?

OPPORTUNITIES

What are your goals?

Are demands shifting?

How can it be improved?

WEAKNESSES

Where do you need to improve?

Are resources adequate?

What do others do better than you?

THREATS

What are the blockers you're facing?

What are factors outside of your control?



KEY METRICS

Key Metric 1

Write the measure of success for your business product or service.

Key Metric 2

Write the measure of success for your business product or service.

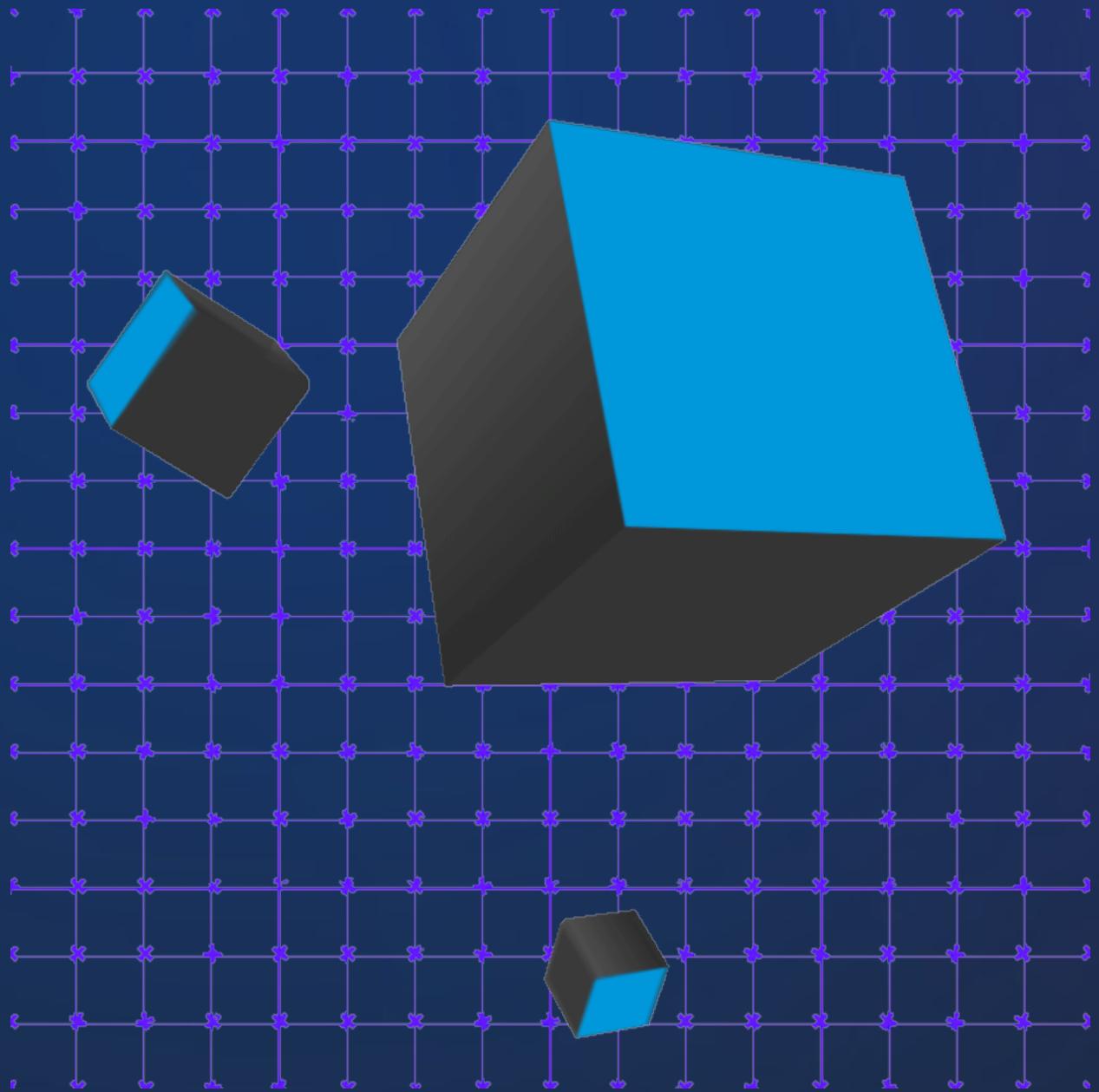
Key Metric 3

Write the measure of success for your business product or service.

WRITE THE COMPANY'S UNIQUE VALUE PROPOSITION.

Turn an unaware visitor into an interested customer by expounding on your company's compelling, unique value proposition here.

CONSUMER SEGMENTS



PERSONA 1

Visualize the ideal customer for which your solutions are intended.



PERSONA 2

Visualize the ideal customer for which your solutions are intended.



PERSONA 3

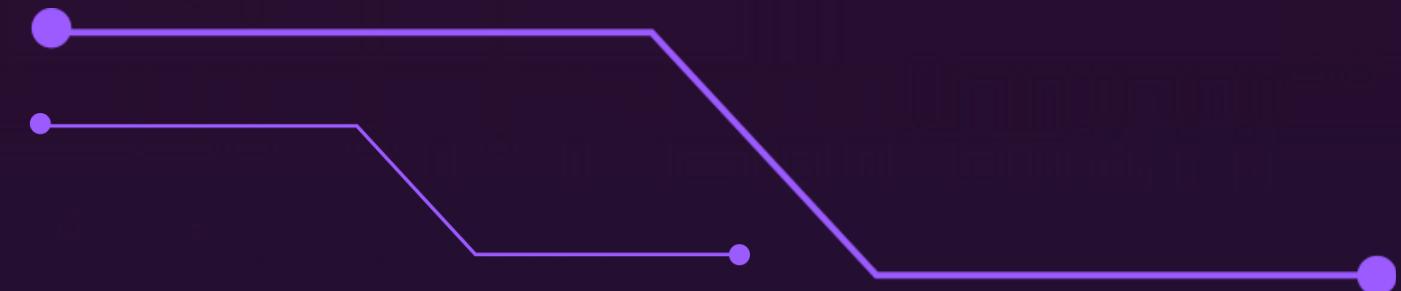
Visualize the ideal customer for which your solutions are intended.



PERSONA 4

Visualize the ideal customer for which your solutions are intended.

CHANNELS



MARKETING CHANNEL 1

How will you reach your target consumers?

MARKETING CHANNEL 2

How will you reach your target consumers?

MARKETING CHANNEL 3

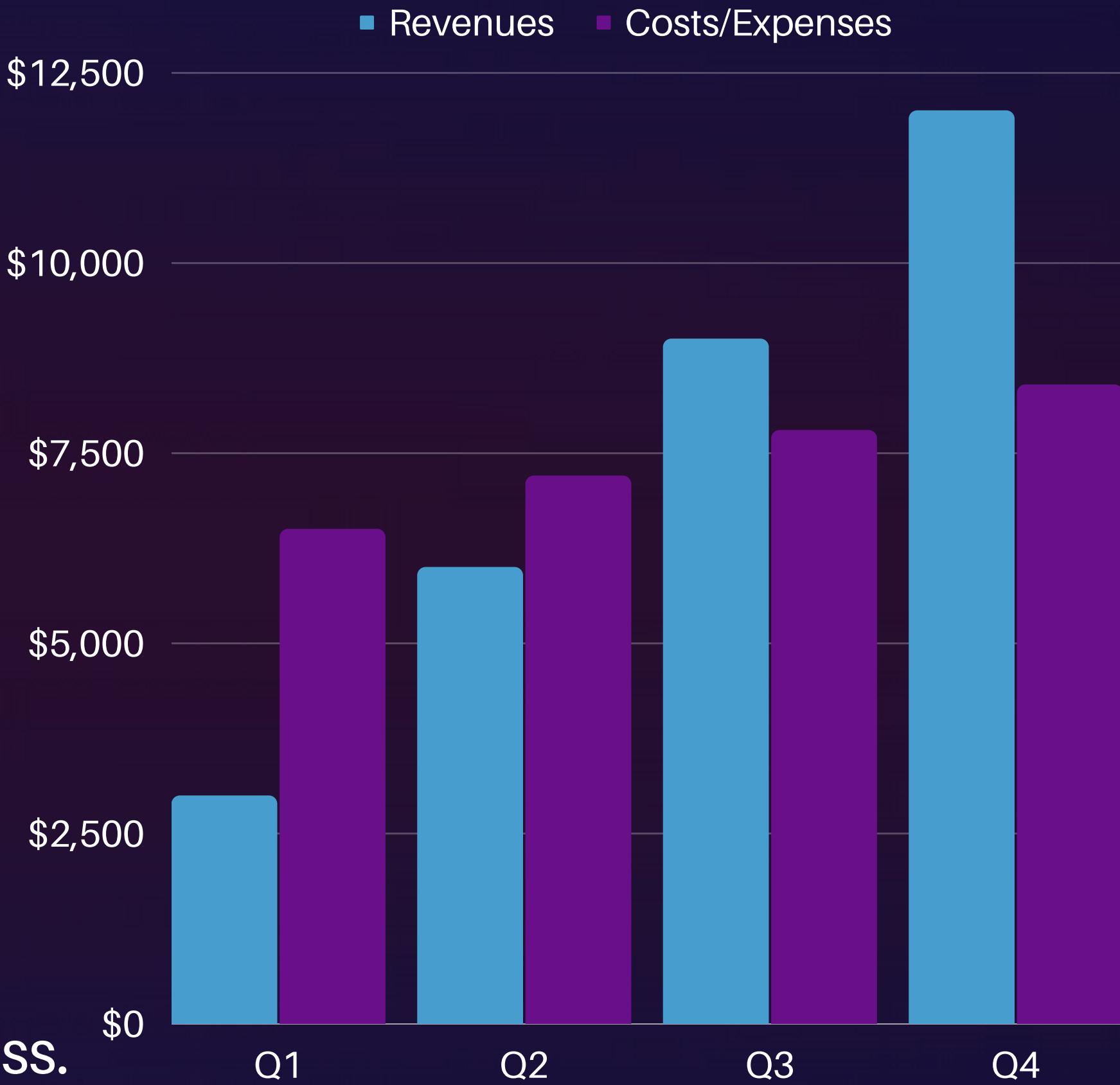
How will you reach your target consumers?



**ADD A
SECTION
HEADER**

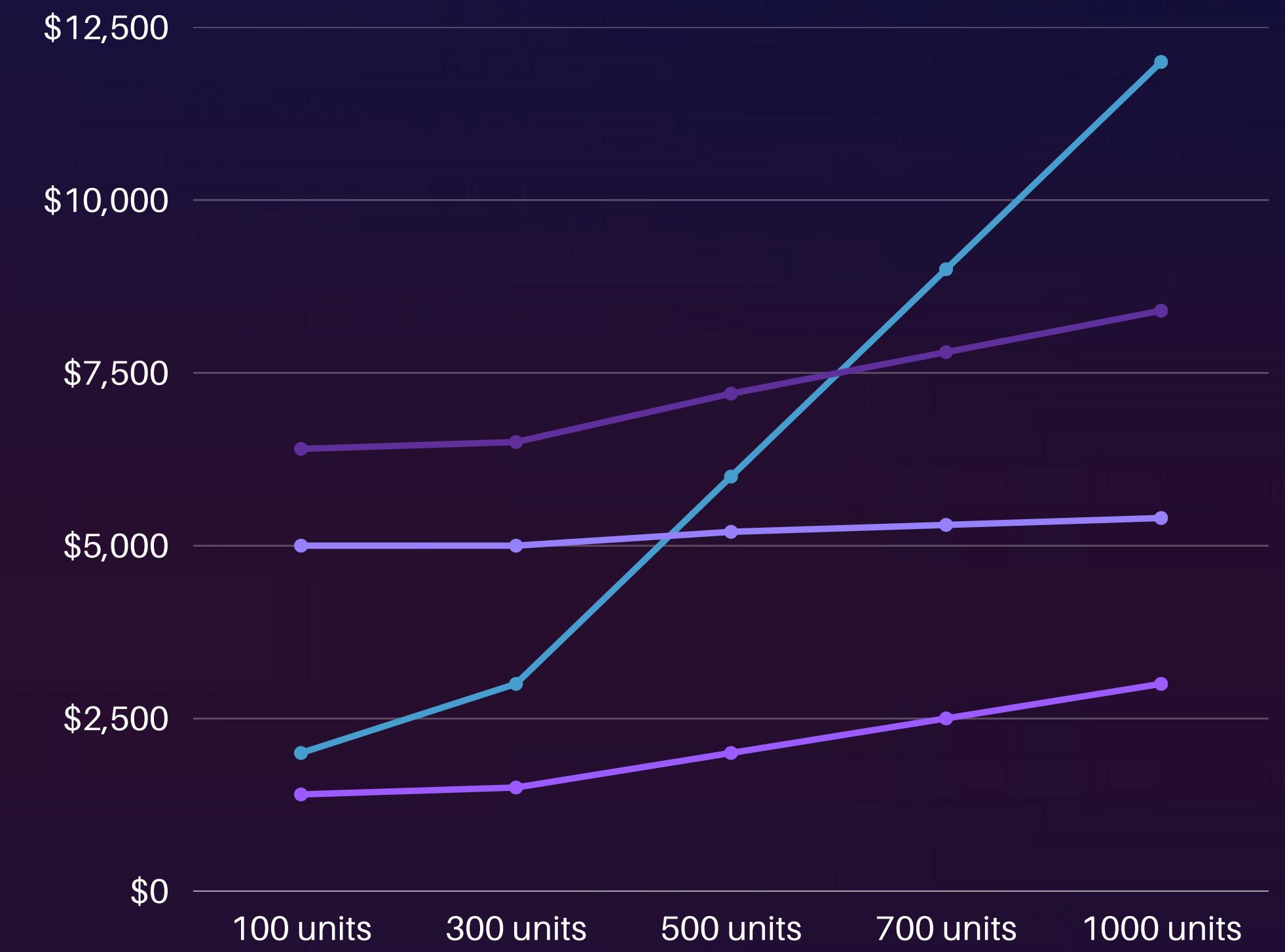
COST STRUCTURE AND REVENUE STREAM

Elaborate on what you want to discuss.



COST STRUCTURE AND REVENUE STREAM

Revenue Variable Cost Fixed Cost Total Cost



Elaborate on what you want to discuss.

2 OUT OF 5

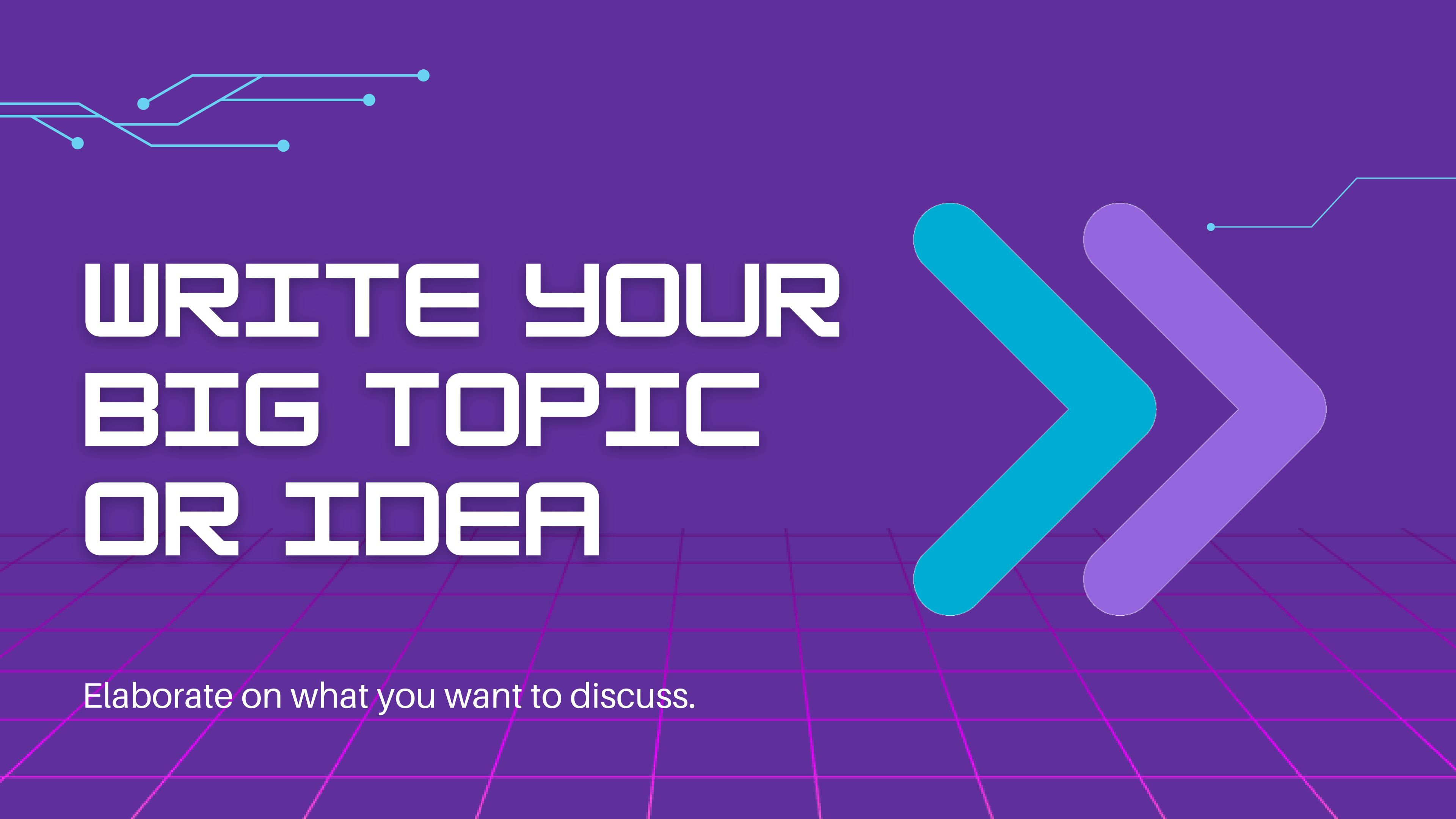
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95%

Elaborate on the featured statistic.

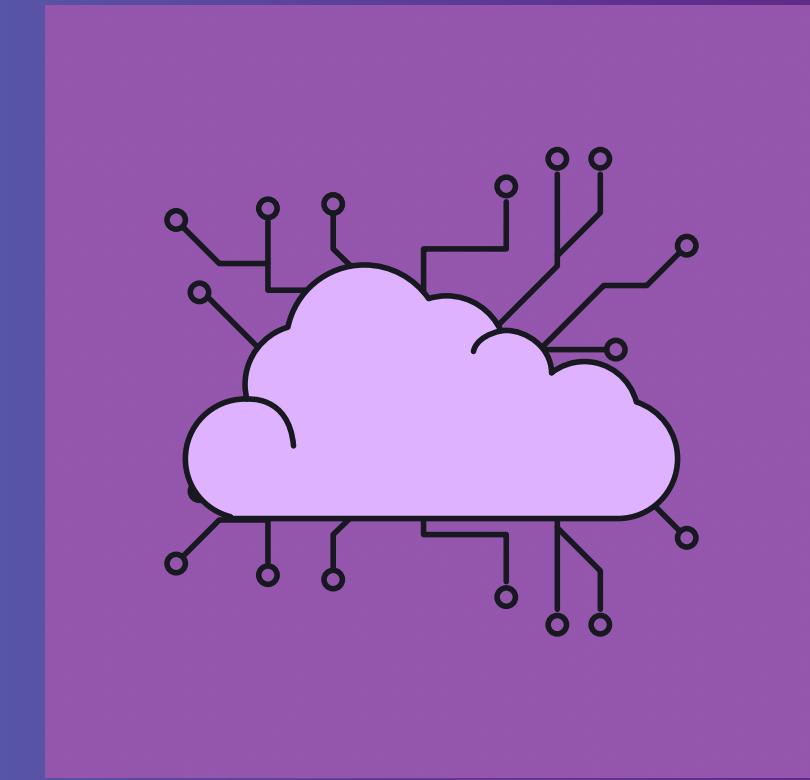
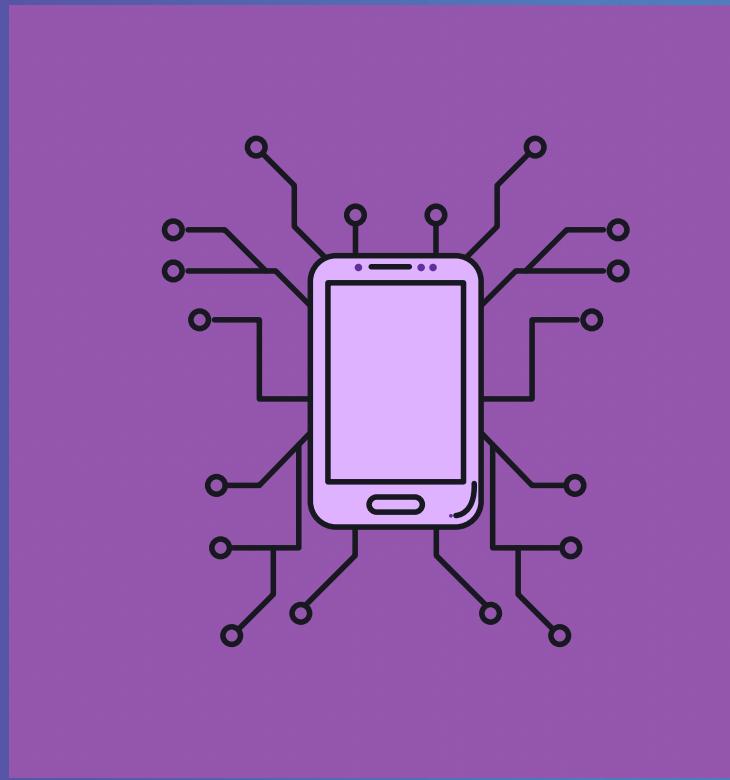
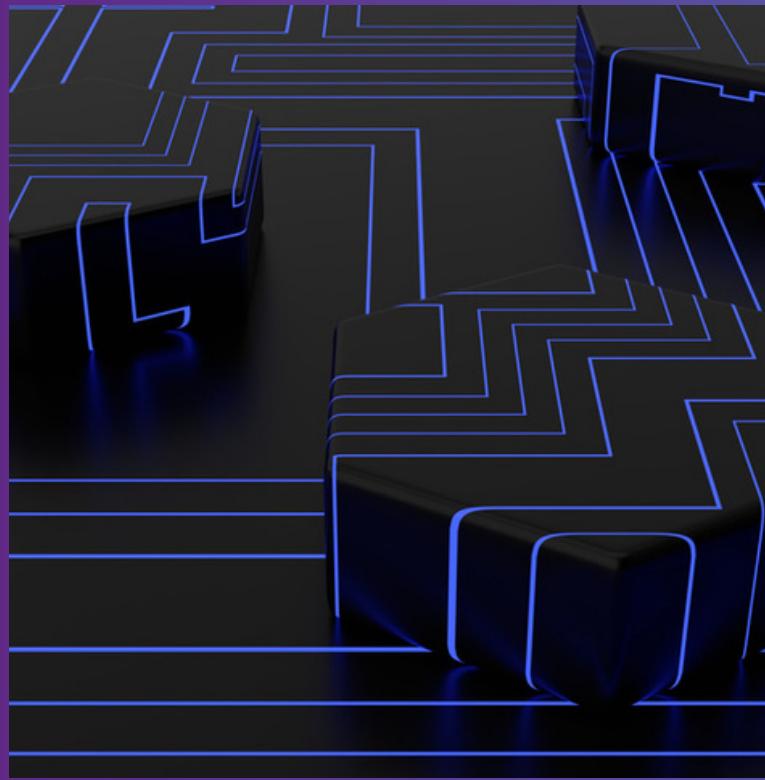
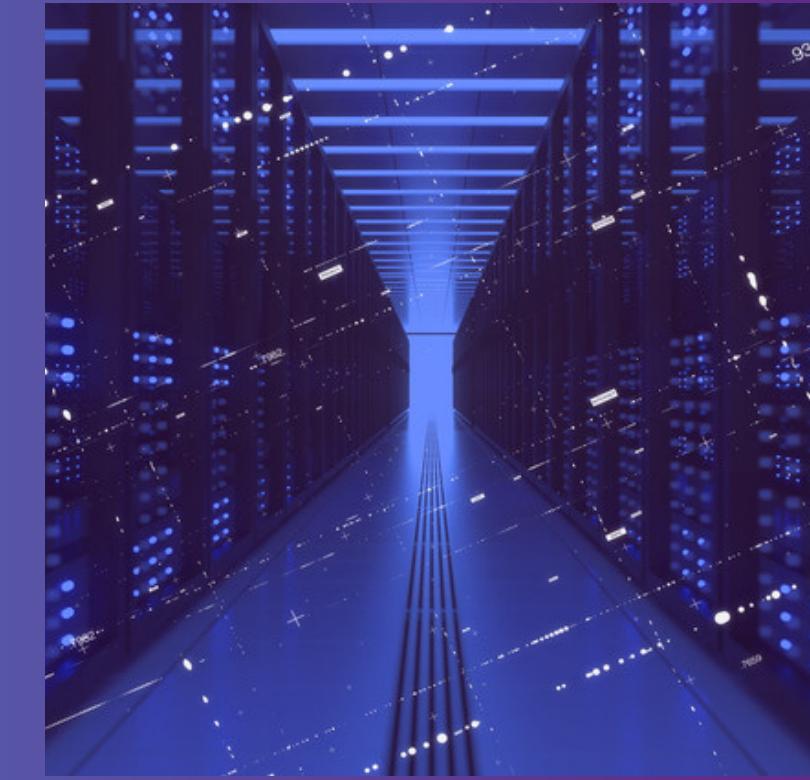
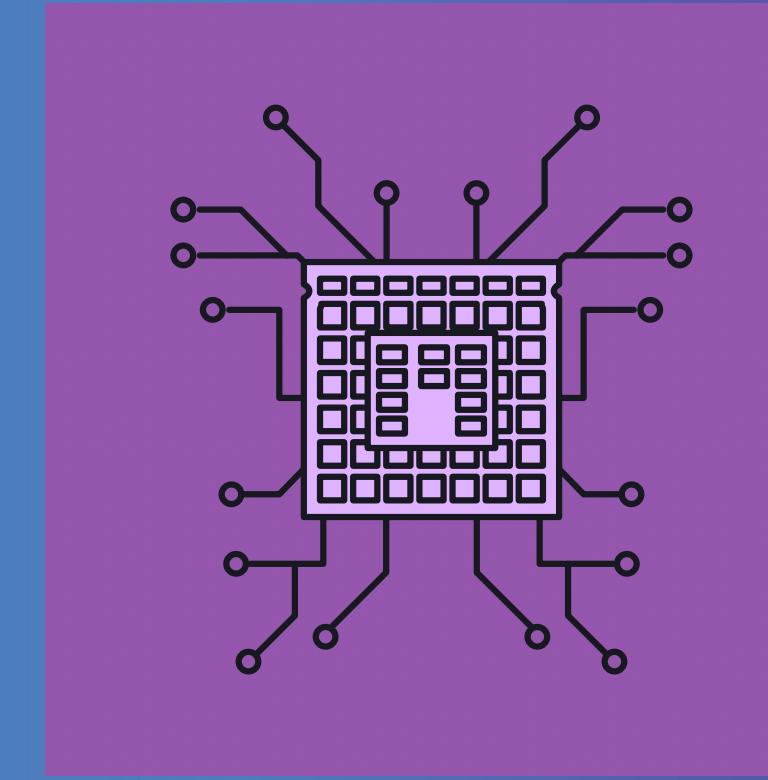
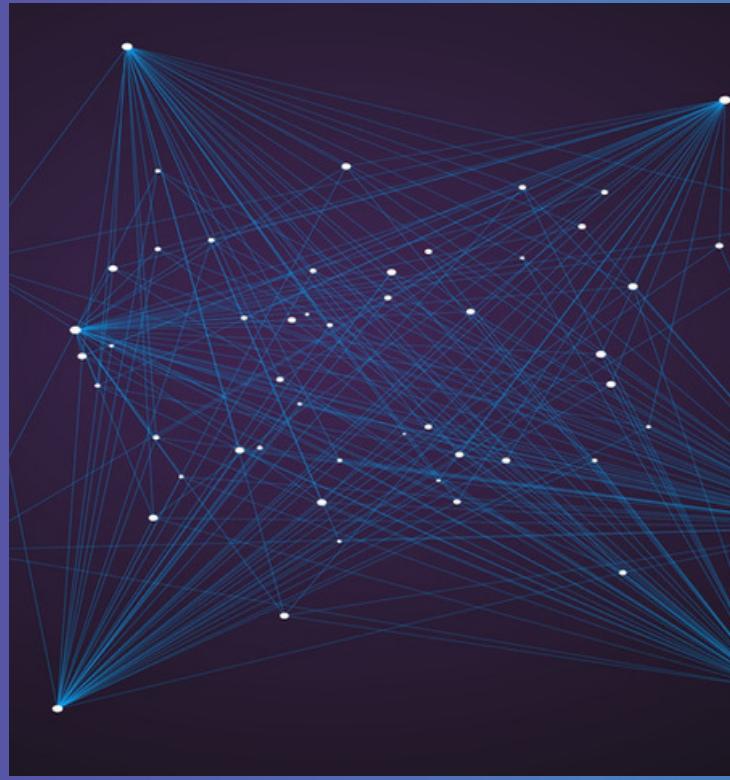
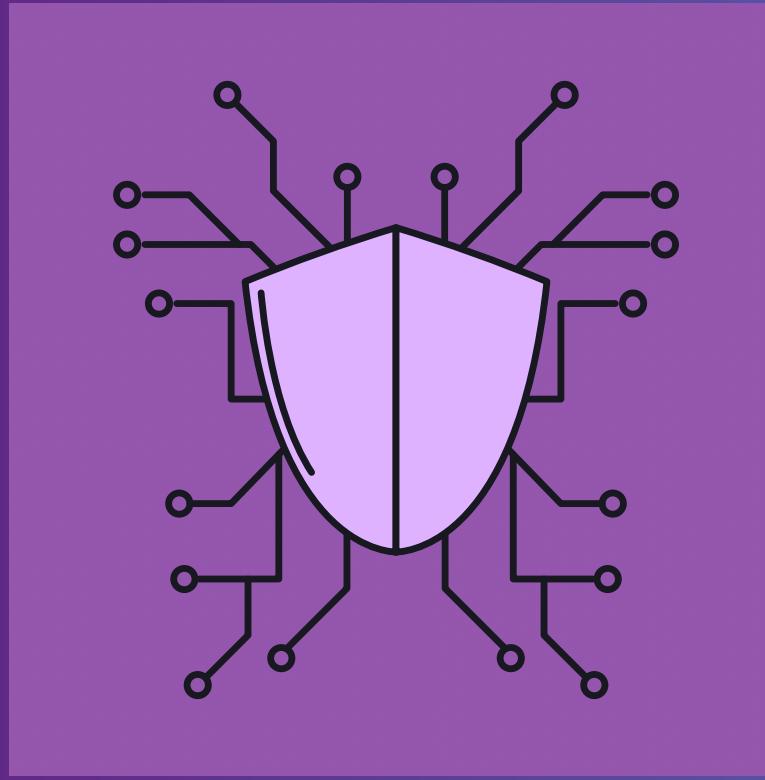
12 MILLION

Elaborate on the featured statistic.



WRITE YOUR BIG TOPIC OR IDEA

Elaborate on what you want to discuss.



Write a caption for the photos.

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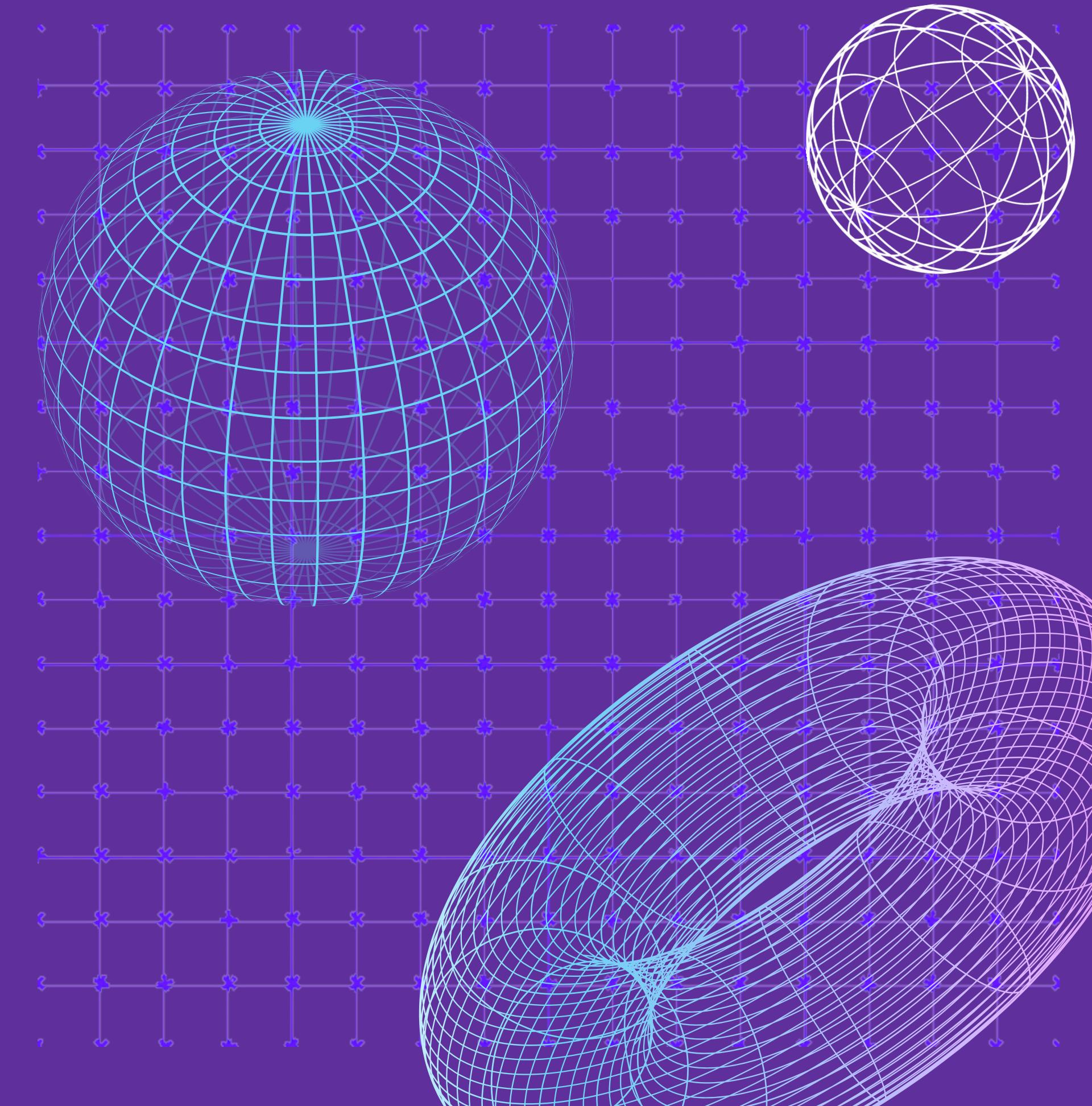
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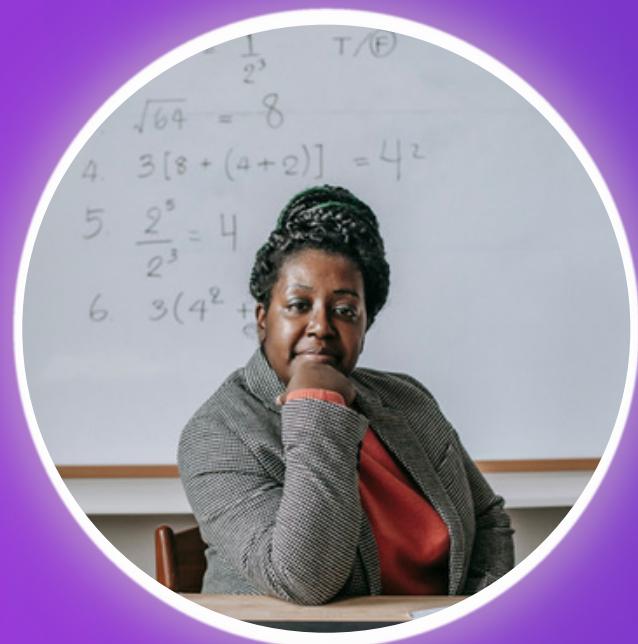
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NAME

Title or Position



NAME

Title or Position



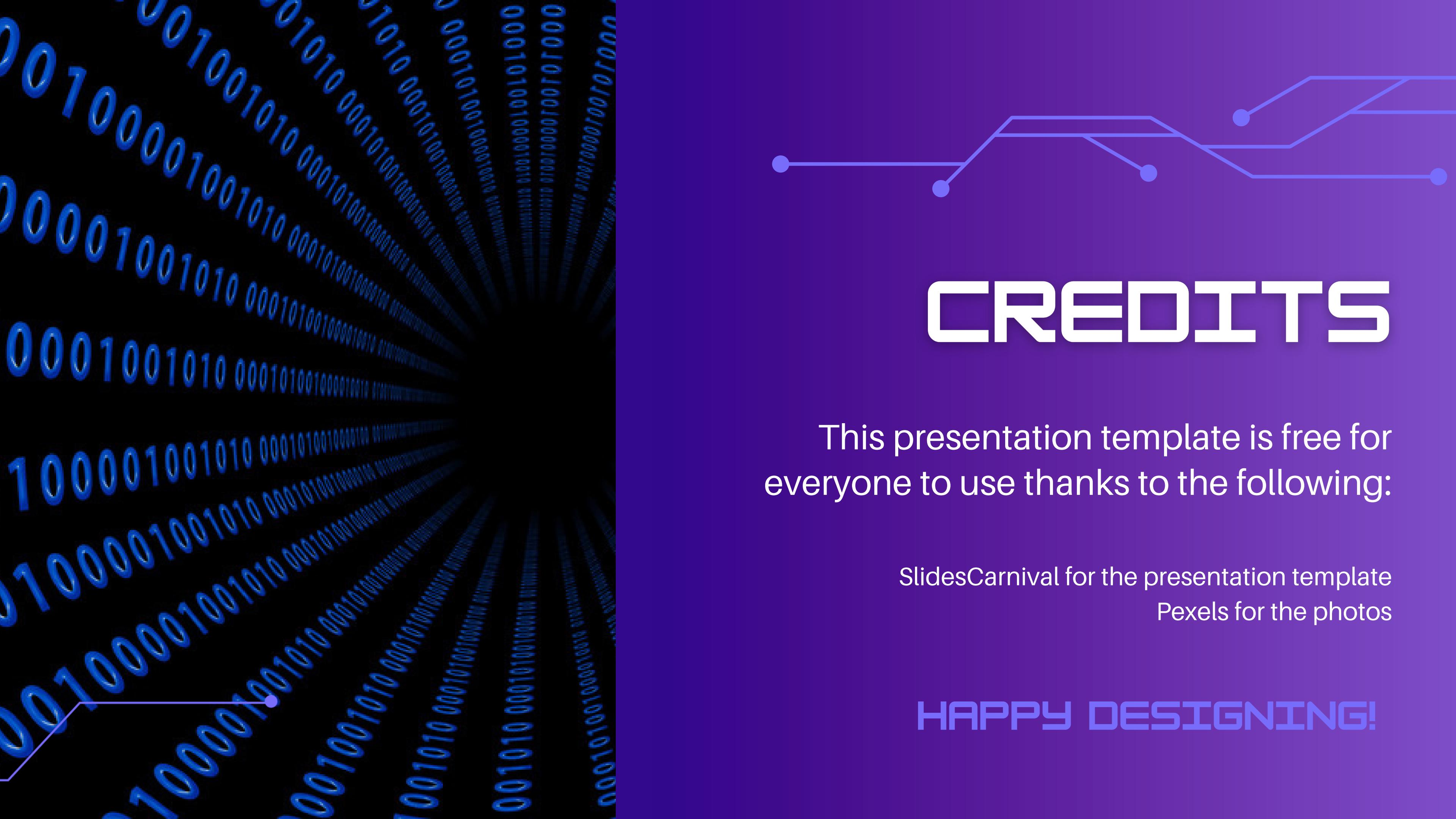
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NAME

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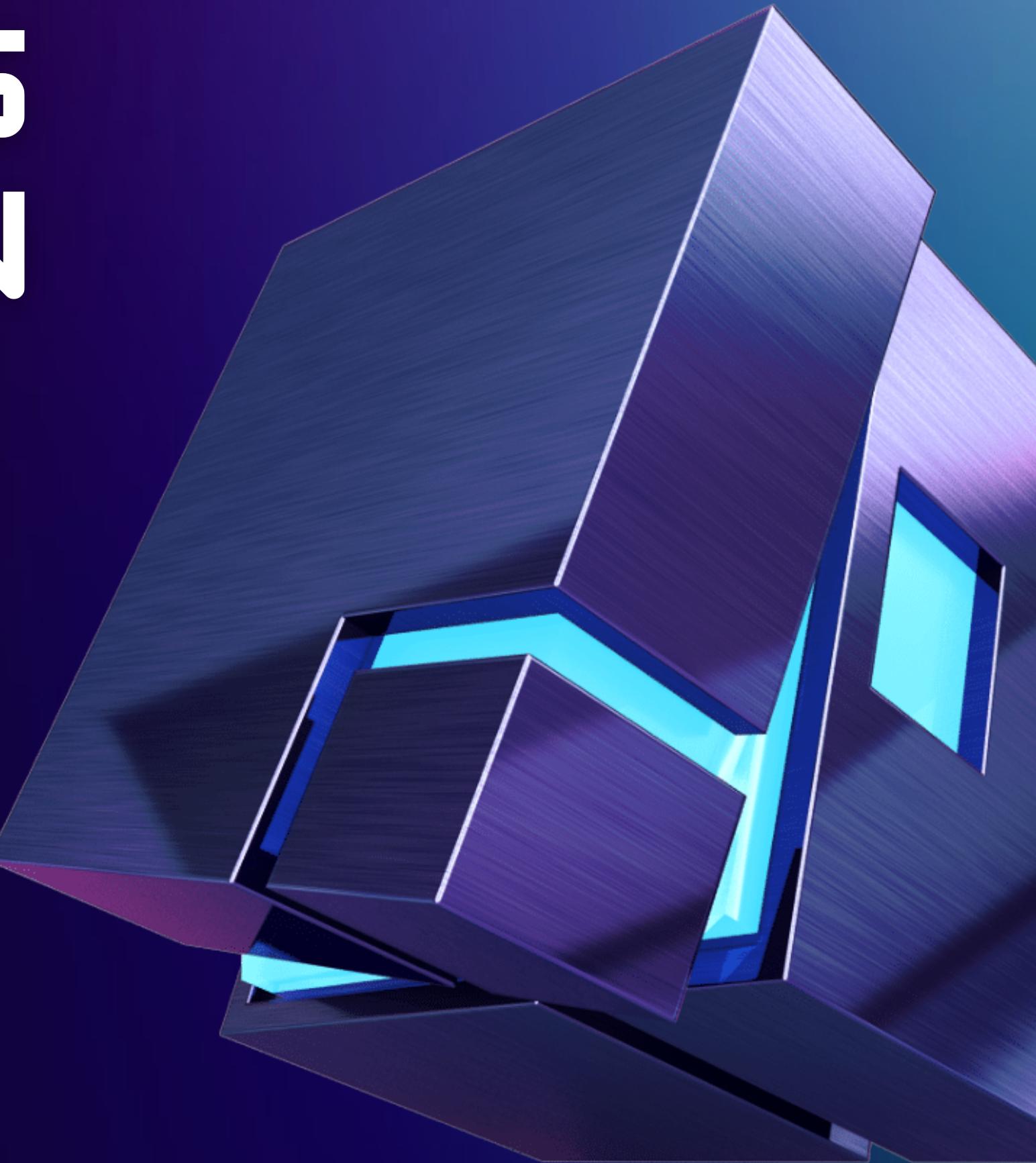
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ADD A TIMELINE PAGE



ADD A MAIN POINT

Elaborate on what you want to discuss.



ADD A MAIN POINT

Elaborate on what you want to discuss.



ADD A MAIN POINT

Elaborate on what you want to discuss.



ADD A MAIN POINT

Elaborate on what you want to discuss.



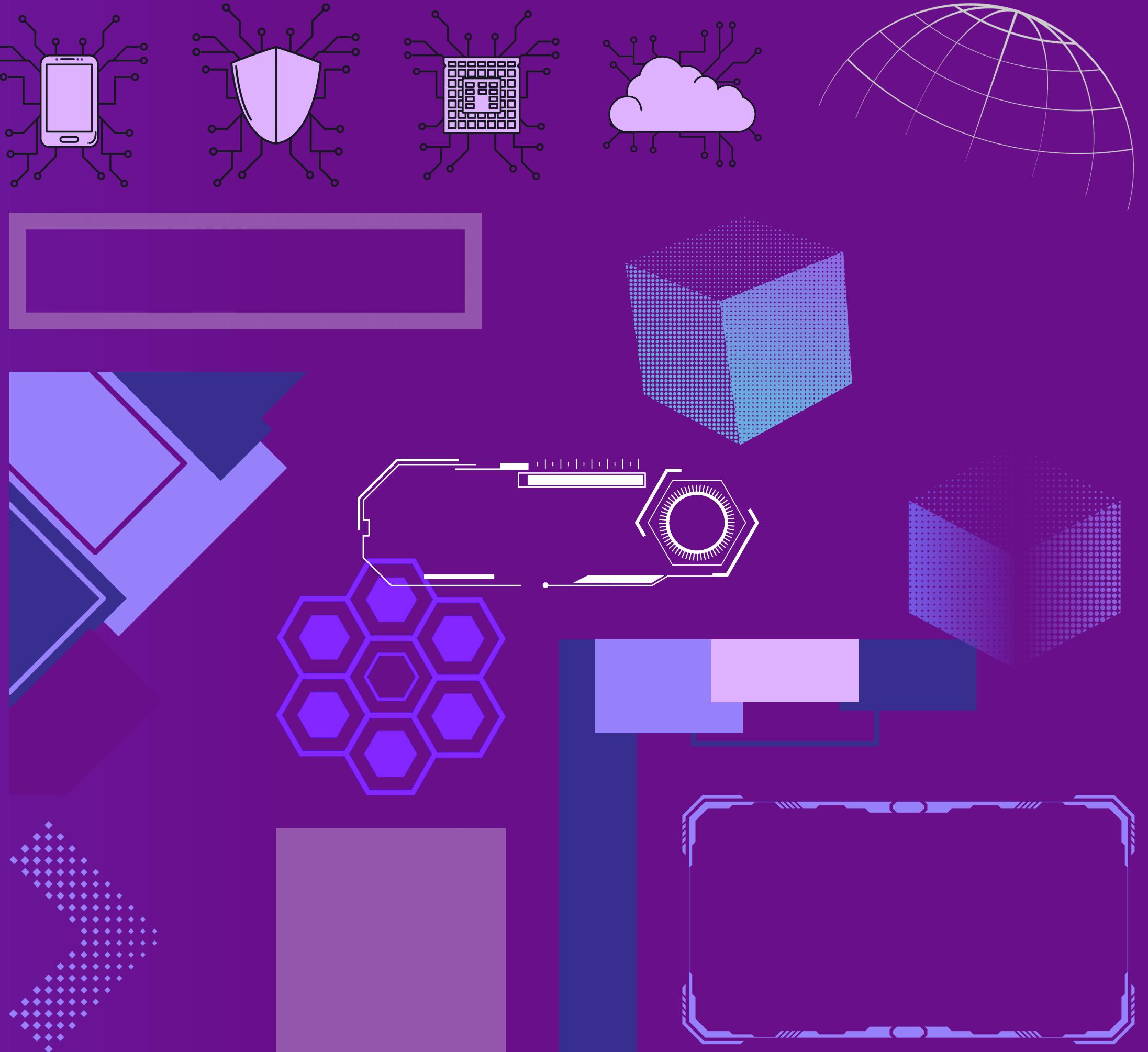
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Name
Job Title

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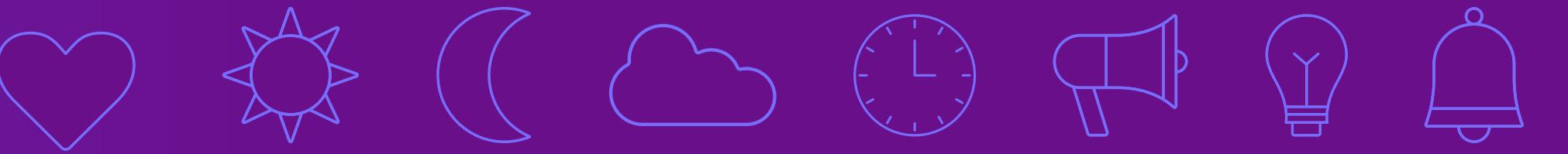
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with attractive
visuals

Contractor Checklist

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<p>Title of the presentation follows the correct format <dominant color> + <accent color> + <design style> + <topic> + Presentation Eg. Blue and White Simple Professional Sales Report Sales Presentation</p>			
<p>There aren't any stray fonts in the presentation. Eg. Arimo, Open Sans, Open Sauce; Check chart fonts!</p>			
<p>There aren't multiple swatches of the same color or similar colors in the palette Eg. Multiple shades of black</p>			
<p>All elements are tagged accordingly. All texts tagged as "Header 1" have the same properties (font family, size, line height, etc) All photos are tagged as "Photo"; All illustrations tagged as "Illustration"</p>			

Contractor Checklist

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